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L2: Entry 1 of 1 File: DWPI Aug 6, 1998

DERWENT-ACC-NO: 1998-428725
DERWENT-WEEK: 199837

TITLE: Honeycomb structure for heat insulating units, glazing for solar panels, factories, etc. - using welding head with heated projections meshing with corresponding fingers on welding anvil to form film into U=shaped wave profile and weld corners of the profiles onto corresponding corners of similar profiles in vertical stack

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PATENT-ASSIGNEE:

ASSIGNEE	CODE
KEHL O	KEHLI

PRIORITY-DATA: 1997DE-1003961 (February 3, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 19703961 A1	August 6, 1998		007	B32B003/28

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
DE 19703961A1	February 3, 1997	1997DE-1003961	

INT-CL (IPC): B29 C 65/22; B29 C 67/20; B32 B 3/12; B32 B 3/28

ABSTRACTED-PUB-NO: DE 19703961A

BASIC-ABSTRACT:

A honeycomb structure is constructed of wave-form film strips (1), each wave having a U-cross-section with horizontal (3) and vertical (4) parts. Layers of film strips (1) are positioned on top of each other and joined together in the transition areas (5) between horizontal and vertical parts (3,4).

The process equipment for manufacturing the honeycomb is also claimed and includes a welding head (22) with spaced projections (24) having vertical and horizontal walls (25,26). A heating wire (31) is located at the corners (27) between the walls (25,26) of each projection (24). A comb-like welding anvil (32) consisting of a connecting bridge (33) and holding fingers (34) in the same horizontal cross-sectional plane as the bridge moves horizontally and the welding head (22) moves vertically to effect both forming of the wave profiles and welding at the corners.

USE - The honeycomb structure is used for construction of heat insulating units, glazing for solar panels, factories, greenhouses or sports halls.

ADVANTAGE - The structure is simpler and less expensive to manufacture, has low weight and does not require a frame for stability.

CHOSEN-DRAWING: Dwg.1/3

TITLE-TERMS: HONEYCOMB STRUCTURE HEAT INSULATE UNIT GLAZE SOLAR PANEL FACTORY WELD HEAD HEAT PROJECT MESH CORRESPOND FINGER WELD ANVIL FORM FILM U=SHAPED WAVE PROFILE WELD CORNER PROFILE CORRESPOND CORNER SIMILAR PROFILE VERTICAL STACK

DERWENT-CLASS: A35 A93 P73

CPI-CODES: A11-C01A1; A12-E10; A12-R06;

ENHANCED-POLYMER-INDEXING:
Polymer Index [1.1] 018 ; P0000 ; S9999 S1285*R ; S9999 S1649*R ; S9999 S1354 ; S9999 S1434 Polymer Index [1.2] 018 ; ND01 ; ND05 ; ND07 ; J9999 J2904 ; J9999 J2915*R ; Q9999 Q9143 ; Q9999 Q7512 ; Q9999 Q7658 ; Q9999 Q6837 Q6826 ; N9999 N6166 ; N9999 N6111 N6097 ; Q9999 Q6735 Q6702 ; Q9999 Q9096 Q9052 ; K9870 K9847 K9790 ; B9999 B4397 B4240 , N9999 N5969 Polymer Index [2.1] 018 ; R00975 G0022 D01 D12 D10 D51 D53 D59 D69 D82 F* 7A ; H0000 ; P0511 Polymer Index [2.2] 018 ; ND01 ; K9483*R ; K9676*R ; K9712 K9676 ; J9999 J2904 ; Q9999 Q7114*R ; Q9999 Q7669 ; K9416 ; B9999 B4682 B4568

SECONDARY-ACC-NO:
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